## What is claimed is:

- 1 1. A method comprising:
- 2 causing data of a first type to be stored in a first
- 3 level of a unified memory device and data of a second type
- 4 to be stored in a second level of the unified memory
- 5 device.
- 1 2. A method as defined in Claim 1, wherein the data
- 2 of a first type is persistent data and the data of a second
- 3 type is dynamic data.
- 3. A method as defined in Claim 1, further
- 2 comprising:
- 3 causing a logical memory management boundary to be
- 4 disposed between the first level and the second
- 5 level.
- 1 4. A method as defined in Claim 3, further
- 2 comprising:
- 3 causing data fragments to be stored in segments of the
- first level by application of a fragmented store
- 5 algorithm.

- 1 5. A method as defined in Claim 4, wherein the data
- 2 fragments are stored in respectively ascending segments of
- 3 the first level.
- 1 6. A method as defined in Claim 5, wherein data
- 2 units are stored in segments respectively ascending from
- 3 the memory management boundary.
- 7. A method as defined in Claim 2, further
- 2 comprising:
- 3 causing data fragments to be stored in respectively
- 4 ascending segments of the first level by
- 5 application of a fragmented store algorithm.
- 1 8. A method as defined in Claim 7, wherein data
- 2 units are stored in respectively descending segments of the
- 3 second memory level.

- 9. An apparatus comprising:
- 2 a first level to store persistent data;
- a second level to store dynamic data; and
- 4 a memory management boundary disposed between the
- first level and the second level.
- 1 10. An apparatus as defined in Claim 9, wherein:
- 2 the first level comprises a plurality of data
- fragments and a plurality of unit headers, each
- 4 of the unit headers associated with a respective
- one of the plurality of data fragments; and
- 6 the second level comprises a plurality of object
- pointers and a plurality of data units, each of
- 8 the object pointers associated with a respective
- 9 one of the plurality of data units.
- 1 11. An apparatus as defined in Claim 10, wherein the
- 2 first level comprises, in respectively ascending order:
- 3 a first unit header;
- 4 a first data fragment; and
- 5 a sequence table.
- 1 12. An apparatus as defined in Claim 11, wherein the
- 2 memory management boundary is logically fixed.

- 1 13. An apparatus as defined in Claim 12, wherein the
- 2 first level comprises an unused area between a data
- 3 fragment segment and a sequence table and the second level
- 4 comprises an unused area between an object pointer and a
- 5 data unit segment.
- 1 14. An apparatus as defined in Claim 11, wherein the
- 2 memory management boundary is logically configurable.
- 1 15. An apparatus as defined in Claim 14, further
- 2 comprising an unused area between a sequence table in the
- 3 first level and a data unit in the second level.
- 1 16. An apparatus as defined in Claim 15, wherein
- 2 object pointers and respective associated data units occupy
- 3 alternatively descending positions in the second level.

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              A machine-readable storage article comprising
 2
    instructions that, if executed, enable a system to:
 3
         store persistent data in a first memory level of a
 4
              unified memory device; and
 5
         store dynamic data in a second memory level of the
 6
              unified memory device.
 1
              A machine readable storage article as defined in
 2
    Claim 17 further comprising instructions that, if executed,
    enable the system to:
 3
 4
         store a plurality of persistent data fragments in the
 5
              first memory level;
 6
         store a plurality of unit headers in the first memory
 7
              level, each of the unit headers being associated
 8
              with a respective one of the plurality of
 9
              persistent data fragments;
10
         store a plurality of dynamic data units in the second
11
              memory level; and
12
         store a plurality of object pointers in the second
13
              memory level, each of the object pointers
14
              associated with a respective one of the dynamic
              data units.
15
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- 1 19. A machine readable storage article as defined in
- 2 Claim 18 further comprising instructions that, if executed,
- 3 enable the system to:
- 4 store a plurality of sequence tables in the first
- 5 memory level.
- 1 20. A machine readable storage article as defined in
- 2 Claim 19 further comprising instructions that, if executed,
- 3 enable the system to:
- 4 cause data fragments to occupy ascending segments in
- 5 the first memory level;
- 6 cause sequence tables to occupy descending segments in
- 7 the first memory level;
- 8 cause object pointers to occupy descending segments in
- 9 the second memory level; and
- 10 cause data units to occupy ascending segments in the
- 11 second memory level.
- 1 21. A machine readable storage article as defined in
- 2 Claim 20 further comprising instructions that, if executed,
- 3 enable the system to:
- 4 cause data fragments and unit headers to occupy
- 5 respectively alternating positions in the first
- 6 memory level;
- 7 cause cause sequence tables to occupy contiguous
- 8 positions in the first memory level;

9 cause object pointers to occupy contiquous positions 10 in the second memory level; and cause data units to occupy contiguous positions in the 11 12 second memory level. 1 22. A machine readable storage article as defined in 2 Claim 18 further comprising instructions that, if executed, 3 enable the system to: cause data fragments to occupy ascending positions in 4 5 the first memory level; cause sequence tables to occupy descending positions 6 7 in the first memory level; 8 cause object pointers to occupy descending positions 9 in the second memory level; and cause data units to occupy ascending positions in the 10 11 second memory level. A machine readable storage article as defined in 1 2 Claim 22 further comprising instructions that, if executed, 3 enable the system to: cause data fragments and unit headers to occupy 4 5 respectively alternating positions in the first 6 memory level; 7 cause cause sequence tables to occupy contiguous

positions in the first memory level; and

9	cause object pointers and data units to occupy
10	respectively alternating positions in the second
11	memory level.

- 1 24. A system comprising:
- a storage device to store instructions that, if
- 3 executed, are effective to:
- 4 store persistent data in a first level of a unified
- 5 memory device;
- store dynamic data in a second level of the unified
- 7 memory device; and
- 8 an antenna coupled to the storage device.
- 1 25. A system as defined in Claim 24, wherein the
- 2 persistent data comprises a plurality of data fragments and
- 3 the dynamic data comprises a plurality of data units.
- 1 26. A system as defined in Claim 25, further
- 2 comprising instructions that, if executed, are effective
- 3 to:
- 4 store a plurality of unit headers in the first level,
- 5 wherein each unit header is associated with a
- data fragment and a data unit.
- 1 27. A system as defined in Claim 26, further
- 2 comprising instructions that, if executed, are effective
- 3 to:
- 4 store at least one sequence table in the first level,
- 5 the sequence table to link data fragments.

- 1 28. A system as defined in Claim 27, further
- 2 comprising instructions that, if executed, are effective
- 3 to:
- 4 store a plurality of object pointers in the second
- level, each object pointer being associated with
- a respective one of the data units.
- 1 29. A system as defined in Claim 28, further
- 2 comprising instructions that, if executed, are effective to
- 3 store data units in the second memory level in contiguous
- 4 memory segments that ascend from a logically fixed memory
- 5 management boundary.
- 1 30. A system as defined in Claim 28, further
- 2 comprising instructions that, if executed, are effective to
- 3 establish a configurable memory management boundary between
- 4 the first level and the second level.